Alcatel-Lucent 8379 DECT IBS

The Alcatel-Lucent 8379 DECT IBS forms a robust infrastructure for Digital Enhanced Cordless Telecommunications (DECT) both in buildings and outdoors, to connect mobile workers everywhere. They offer excellent voice quality in even the most challenging environments.

The base stations pair with Alcatel-Lucent DECT handsets to deliver expert communication features (such as, dial-by-name and multi-line management) from the Alcatel-Lucent Communication Servers.

The resulting solution offers cost-effective operations for all sizes of enterprise businesses. Excellent voice quality meets operational simplicity in SMB and campus environments as well as, industrial or explosive-proof environments. The base stations only require cost-effective twisted pair digital connectivity, and are centrally managed by the communication servers.

Features	Benefits
Built-in centralized management with Alcatel-Lucent Communication Servers	Cost-effective operations
Support of AGAP and GAP protocols	Excellent communicat desktop phone, multi-
Suitable for indoor and outdoor environments including explosive environments	Excellent voice quality everywhere
Digital connectivity over twisted pair	Cost-effective technol scarce IP connectivity
Handover and roaming with former Alcatel-Lucent 4070 DECT IBS base stations and Alcatel-Lucent 8378 DECT IP-xBS	Investments on network, cabling and base stations are preserved

Technical specifications

Radio specifications
- DECT/GAP
- Frequency band
  - Europe: 1.88 GHz – 1.90 GHz
  - US: 1.92 GHz to 1.93 GHz
  - South America: 1.91 GHz to 1.93 GHz
  - Except Brazil: 1910 to 1920 MHz
  - Asia: 1.90 GHz to 1.906 GHz

Note: ATEX version available for Europe only

Functionality
Channels can be disabled by the Communication Server to adapt to local regulations
- Channel bandwidth: 1.728 MHz
- Transmission carriers: 10
- Maximum number of simultaneous active calls: 6
- Over the air synchronization: Requires one channel
- Mix of IP and TDM DECT Infrastructure supported
- RF power 250 mW, limited to 100 mW for US (DECT 6.0)
- Sensitivity: Typical -90 dBm measured at antenna connection at BER = 0.001
- Radio coverage from 50 m to 300 m (approximately 55 yd to 328 yd) depending on location and environment
- Switched antenna diversity
- Integrated omni-directional antenna 2 dBi gain (maximum)
- SMA connectors for connecting external antennas
- SAR: less than 0.25 W/kg for six simultaneous active calls

DECT protocol specifications
- ETSI GAP compliant
- Alcatel-Lucent AGAP protocol
- DECT security, DECT encryption
- Roaming and seamless handover
- Support identity, authentication and encryption
- Audio CODEC G726

Electrical interface
- 1 or 2 TDM UA interface(s)
- Twisted pair cabling remote feeding up to 1200 m/approx. 1312 yd

Power feeding
- Remote power feeding on TDM link
  - Typical consumption for six simultaneous calls: 2 W
- Local power feeding for extended wiring range to Communication Server (indoor version)
- Uses same power supply as Alcatel-Lucent fixed wired phones (48 V)

Operating temperature
- Indoor: 41°F to 113°F (+5°C to 45°C)
- Outdoor: -4°F to 131°F (-20°C to +55°C)

Dimensions (Wall and ceiling mountable)
- Indoor integrated antennas
  - Height: 8.5 in. (215 mm)
  - Width: 6.7 in. (170 mm)
  - Depth: 1.8 in. (45 mm)
  - Weight: 15.5 oz. (440 g)
- Indoor for external antennas
  - Height: 8.5 in. (215 mm)
  - Width: 6.7 in. (170 mm)
  - Depth: 1.8 in. (45 mm)
  - Weight: 15.5 oz. (440 g)
- Outdoor
  - Height: 14.4 in. (365 mm)
  - Width: 8.3 in. (210 mm)
  - Depth: 2.6 in. (65 mm)
  - Weight: 52.2 oz (1.48 kg)
- ATEX
  - Height: 29.92 in. (760 mm)
  - Width: 11.81 in. (300 mm)
  - Depth: 5.90 in. (150 mm)
  - Weight: 359.8 oz (10.2 kg)

Serviceability
- LED status indication
- Firmware downloadable through Communication Server

Regulation
- EU directives
  - Radio Equipment Directive; 2014/53/EU
  - ROHS 2011/65/EU
  - Limitation of exposure of general public to Electromagnetic fields 1999/519/EC
  - WEEE 2012/19/EU
  - ATEX 2014/34/EU
- Safety
  - IEC 60950-1
  - EN 60950-1
  - UL 60950-1
  - CAN/CSA-22.2 No 60950-1

- EMC
  - EN 301 489-01
  - EN 301 489-06
  - EN 55032
- Radio
  - ETSI EN 301 406
  - FCC CFR47 Part 15D
  - RSS-213

SAR
- EN 62311
- FCC OET Bulletin 65
- RSS-102
- NZS 2772.2

DECT
- ETSI EN 301 406
- ETSI EN 300 175

Environmental
- ETSI
  - Operation (indoor): ETSI EN 300 019-1-3-class 3.1
  - Operation (outdoor): ETSI EN 300 019-1-4- class 4.2H with -20°C for low temperature and +55°C as high temperature
  - Storage: ETSI EN 300 019-1-1-class 1.2
  - Transport: ETSI EN 300-019-1-2-class 2.3
- ATEX classification: II 2 G EEx de IIC T6
- ATEX standards
  - EN 60079-0 general requirements
  - EN 60079-1 Flameproof enclosures "d"
  - EN 60079-7 equipment protection by increased safety "e"
- IP Class
  - IP Class (IEC 60529)
  - Indoor base station: IP20
  - Outdoor base station: IP55
  - ATEX base station: IP65

Models
- 3BN77020BA 8379 DECT IBS integrated antennas
- 3BN77020CA 8379 DECT IBS for external antennas
- 3BN77020DA 8379 DECT IBS outdoor with external antennas

Accessories
- 3BN67185AA 8 dBi Gain antenna
- 3BD52212AA 7,5 dB Gain antenna
- 3BD52205AA 8dB right circular antenna
- 3BD52206AA 8dB left circular antenna

Alcatel·Lucent Ⓐ
Enterprise